

Serial No. 10/583,673
Reply to Office Action Dated 3/20/09

PF030182
Customer No. 24498

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) Method for creating a saliency map of an image wherein it comprises the steps of:

- Projection of said image according to the luminance component and if said image is a color image, according to the luminance component and according to the chrominance components,
- Perceptual sub-bands decomposition of said components according to the visibility threshold of a human eye,
- Extraction of the salient elements of the sub-bands related to the luminance component,
- Contour enhancement of said salient elements in each sub-band related to the luminance component,
- Calculation of a saliency map from the contour enhancement, for each sub-band related to the luminance component.
- Creation of the saliency map as a function of the saliency maps obtained for each sub-band.

2. (Previously Presented) Method according to claim 1 wherein it comprises, further to the perceptual sub-bands decomposition,

- a step of achromatic contrast sensitivity function for the luminance component and if said image is a color image,
- a step of chromatic sensitivity function for the chromatic components.

3. (Previously Presented) Method according to claim 2 wherein it comprises a step of visual masking, further to the step of contrast sensitivity function, for each sub-band of the luminance component and of the chromatic components.

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4. (Previously Presented) Method according to claim 3 wherein, when said image is a color image, it comprises a step of chromatic reinforcement of the luminance sub-bands.
5. (Previously Presented) Method according to claim 1 wherein the perceptual sub-bands decomposition is obtained by carving-up the frequency domain both in spatial radial frequency and orientation.
6. (Previously Presented) Method according to claim 5 wherein the perceptual decomposition of the luminance (A) component leads to 17 psycho visual sub-bands distributed on four crowns.
7. (Previously Presented) Method according to claim 5 wherein the perceptual decomposition of the chromatic components leads to 5 psycho visual sub-bands distributed on two crowns for each chromatic component.
8. (Previously Presented) Method according to claim 4 wherein the chromatic reinforcement of the luminance component is done on the sub-bands of the second crown and based on the sub-bands of the first crown of the chromatic components.

Claim 9 (Cancelled)

10. (New) A computer readable medium encoded with a computer program comprising the steps of:
 - Projection of said image according to the luminance component and if said image is a color image, according to the luminance component and according to the chrominance components,
 - Perceptual sub-bands decomposition of said components according to the visibility threshold of a human eye,

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- Extraction of the salient elements of the sub-bands related to the luminance component,
- Contour enhancement of said salient elements in each sub-band related to the luminance component,
- Calculation of a saliency map from the contour enhancement, for each sub-band related to the luminance component.
- Creation of the saliency map as a function of the saliency maps obtained for each sub-band.